

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/039983 A1**

(51) International Patent Classification<sup>7</sup>: **B65B 9/20**

(21) International Application Number:  
PCT/EP2004/052603

(22) International Filing Date: 21 October 2004 (21.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03425690.9 22 October 2003 (22.10.2003) EP

(71) Applicant (for all designated States except US): **TETRA  
LAVAL HOLDINGS & FINANCE SA [CH/CH]**; Avenue  
Général-Guisan, 70, CH-1009 PULLY (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **POPPI, Marco**  
[IT/IT]; Via Luvini, 19, I-MODENA 41100 (IT).

(74) Agents: **JORIO, Paolo et al.**; STUDIO TORTA S.r.l., Via  
Viotti, 9, I-10121 TORINO (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

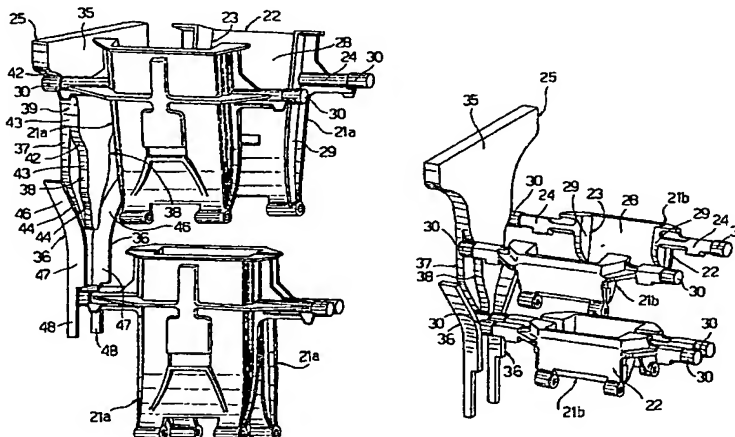
— with international search report

(48) Date of publication of this corrected version:

4 August 2005

[Continued on next page]

(54) Title: FORM-AND-SEAL UNIT FOR A MACHINE FOR PACKAGING POURABLE FOOD PRODUCTS



(57) Abstract: A form-and-seal unit (1) for producing aseptic sealed packages from a tube (2) of packaging material filled with a pourable food product, the unit having a fixed structure (3); and two forming assemblies (5, 5') which interact alternately and cyclically with the tube (2) of packaging material, and have respective pairs of jaws (7), movable between an open position and a closed position in which they grip the tube (2) of packaging material between respective sealing means (13, 14), and respective forming flaps (21) selectable from different types of forming flaps (21a, 21b) for producing different types of packages, and having respective half shell forming portions (22) which surround the tube (2) of packaging material to determine the volume and shape of the packages; the approach movement of the forming flaps (21) towards the tube (2) of packaging material is controlled by fixed cam means (35) having different work profiles (37, 38) selectively engaged by cam-follower rollers (30) of the forming flaps (21), depending on the type of forming flaps (21a, 21b) used.

WO 2005/039983 A1



**(15) Information about Correction:**

see PCT Gazette No. 31/2005 of 4 August 2005, Section II

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*